

Scale Inhibitor KMA019A

1. Introduction

KMA019A is a phosphonate-based scale inhibitor that may be used for controlling the deposition of calcium carbonate, calcium sulfate, strontium sulfate and barium sulfate scales. The advantages of KMA019A include its thermal stability and compatibility with most of the fracturing and acidizing fluids.

2. Physical Properties and Hazards

Additive	Form	Specific Gravity	Water Solubility	Melting/Flash Point (°C)	Health Hazard	Physical Hazard	pH
KMA019A	Umber Liquid	1.30-1.40	Soluble	>93.1	Skin, Eye	Corrosive	2.0-3.0 (1%)

3. Chemical Properties and Application

KMA019A protects against general oilfield scales such as carbonates and sulfates and can be used to control scale formation in producing wells, injection wells and all surface injection systems and vessels with scaling potential.

KMA019A is also effective in water based and acid-based fracturing and stimulation treatments. Recommended upper temperature limit is 250°F (121°C), but field results show its effectiveness even at higher temperatures. Pre-job scale inhibitor tests are recommended to verify the optimum concentration of KMA019A for a cost-effective operation.

4. Treatment

KMA019A can be pre-mixed with fracturing water or added on the fly at the rate of 2 gallons per 1000 gallons (2 L/m³). The concentration may vary depend on the type of the scale and severity of the problem.

5. Packaging

KMA019A is supplied in 55 gallons high density polyethylene (HDPE) drums or 265 gallons HDPE totes. Keep it away from extreme conditions such as places near flames or direct sunlight.